United States Patent [19]

Atchisson

[11] Patent Number:

4,893,547

[45] Date of Patent:

Jan. 16, 1990

[54]	BOLT	MECH	ANISM	FOR	FIRE	ARM
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30360

[21] Appl. No.: 96,934

[22] Filed: Sep. 14, 1987

Related U.S. Application Data

[60] Division of Ser. No. 784,157, Oct. 4, 1985, Pat. No. 4,693,170, which is a division of Ser. No. 639,526, Aug. 8, 1984, Pat. No. 4,553,469, which is a continuation of Ser. No. 336,328, Dec. 31, 1981, abandoned.

[51]	Int. Cl. ⁴		F41D	5/04
[52]	U.S. Cl.	••••••	89/1	87.01

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1,043,670	11/1912	Chronis	39/187.01
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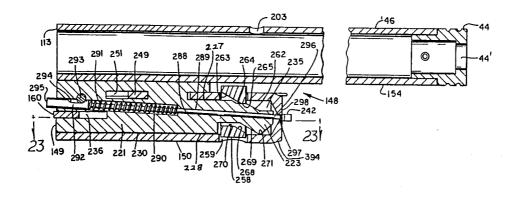
Primary Examiner—Stephen C. Bentley

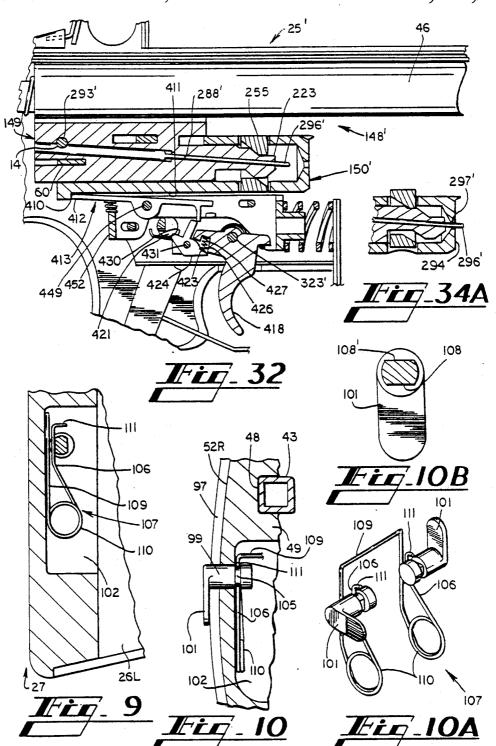
Attorney, Agent, or Firm-Jones, Askew & Lunsford

[57] ABSTRACT

A locked breach, gas operated long action firearm capable of firing heavy caliber shotgun or rifle shells with substantially reduced recoil. The gas piston and bolt carrier assembly are supported for recoil movement along a single guide rod which extends the entire length of the gun, permitting a longer recoil path resulting in reduced impulse due to recoil. The guide rod has a noncircular or radially-assymmetrical cross-section mating with a corresponding opening in the gas piston, so that the bolt carrier assembly remains in alignment over the entire recoil path. Separate close-bolt and open-bolt embodiments are disclosed, and the open-bolt embodiment is selectively capable of firing either semi-automatic or full-automatic while permitting reliable cartridge feeding from a box or drum magazine.

7 Claims, 18 Drawing Sheets



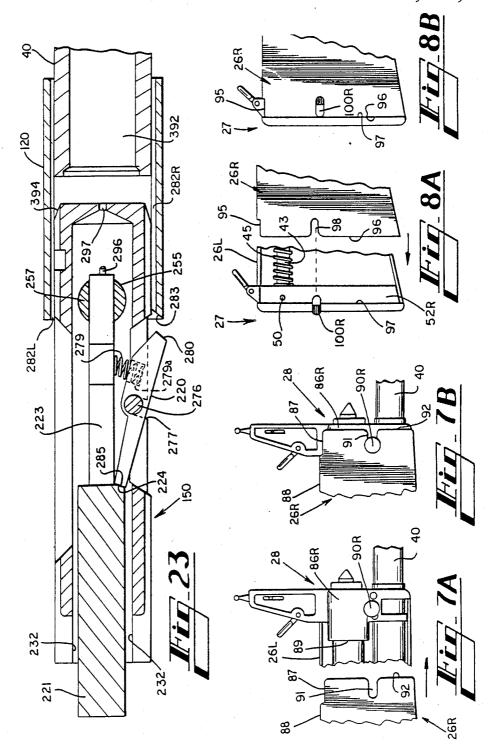


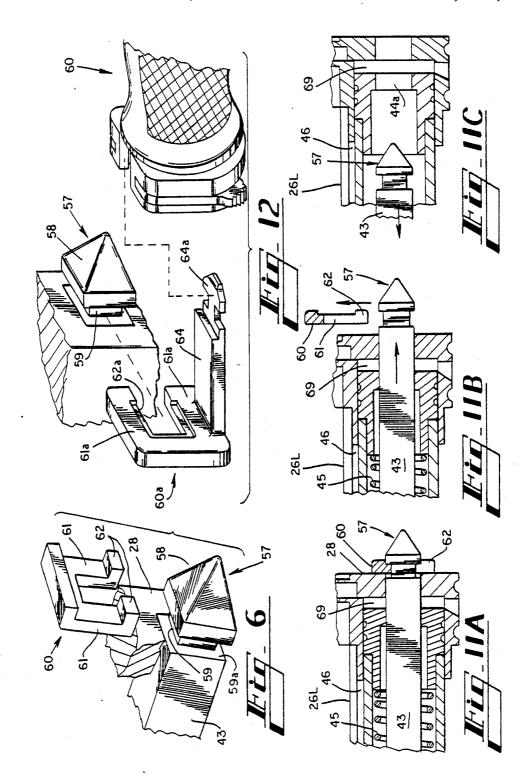
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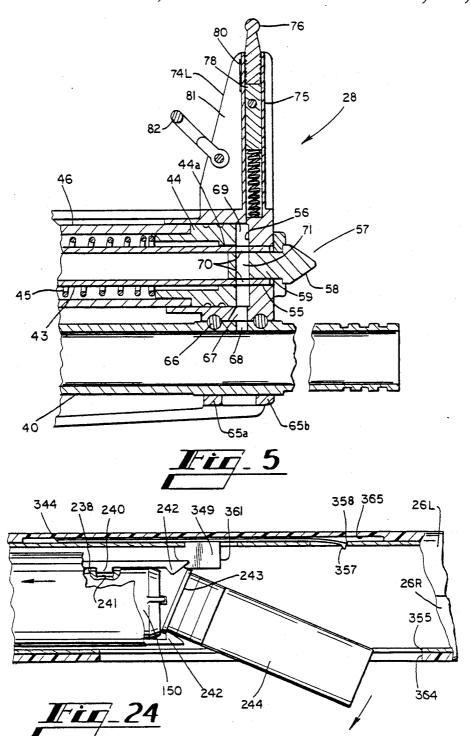
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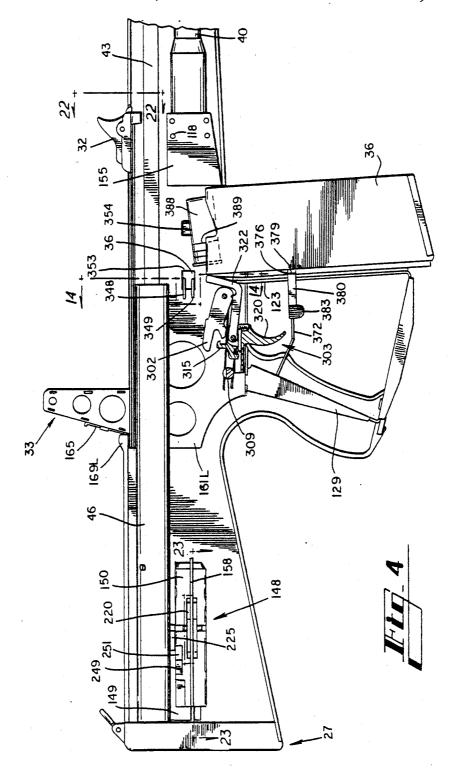
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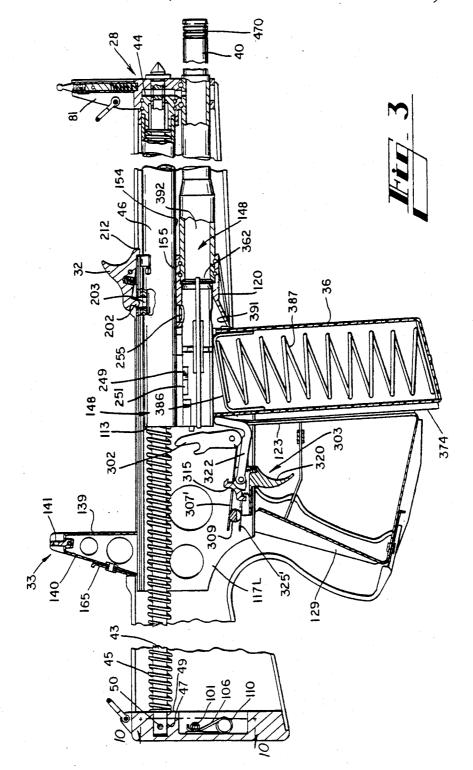
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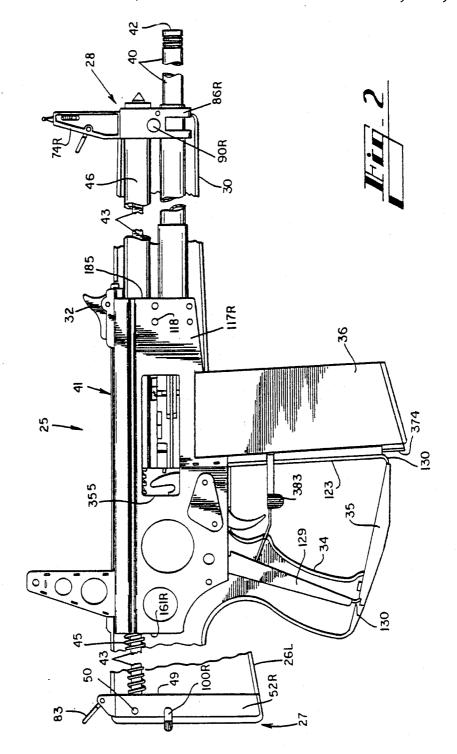


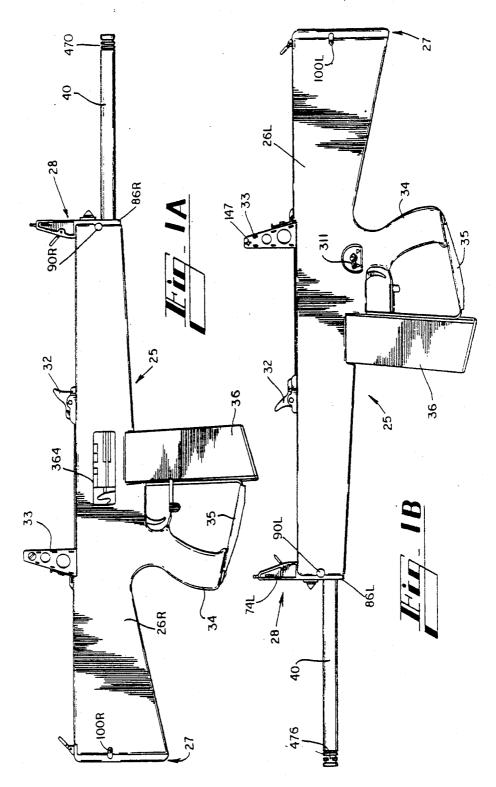


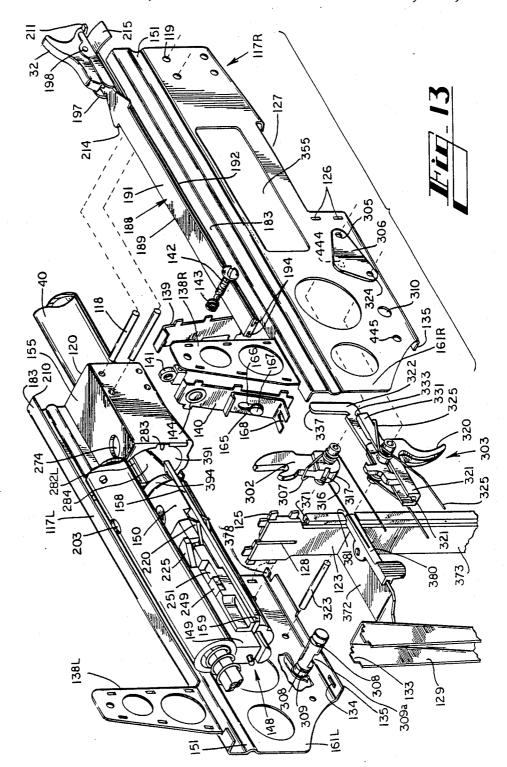


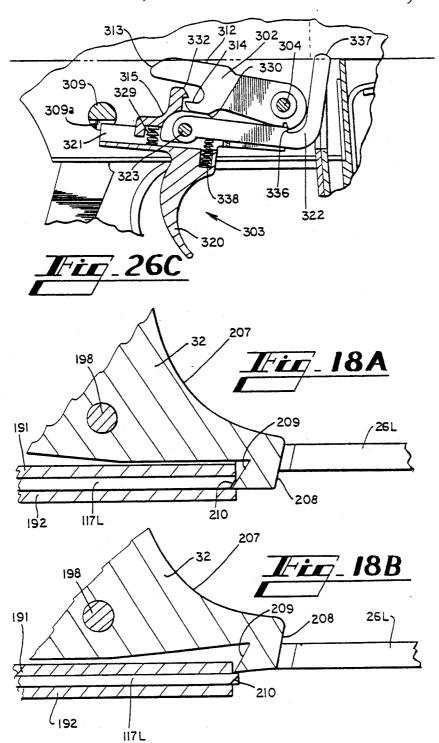


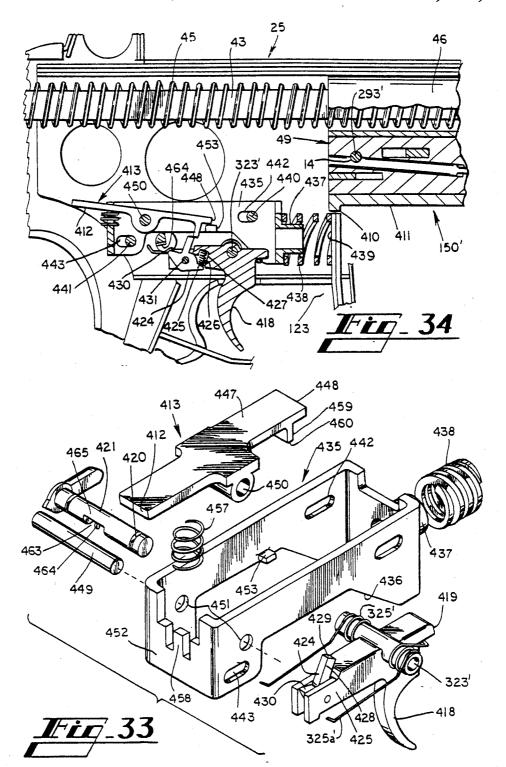


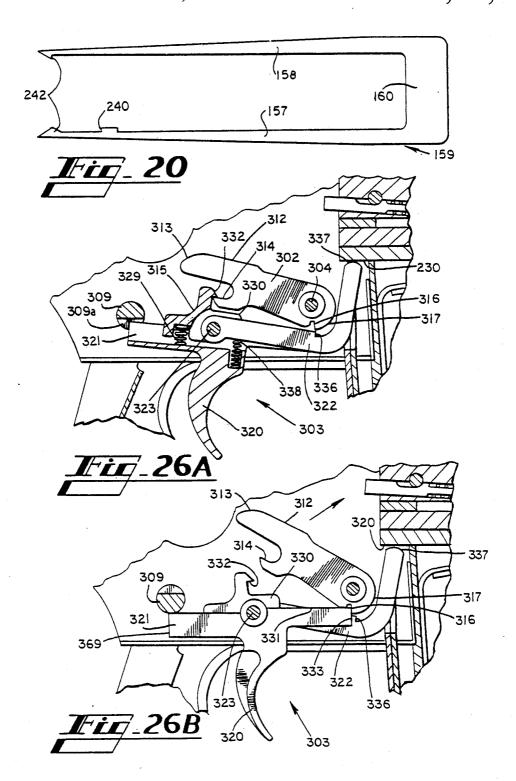












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